



## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

The present invention relates to the process by which wireless mobile phones and any other wireless mobile device are use to access, brows, search, post, update and delete data from database files like Access Database, SQL Server, Oracle Server etc in any deferent platforms using deferent application development packages examples.

ASP by Microsoft on Microsoft platform

JSP by Sun Micro System on Sun, Unix and Linux Platforms.

ColdFusion by Allaire Corporation on Microsoft, Sun, Unix and Linux platforms.

### 2. Background and Related Art

In 1997 the term WAP "Wireless Application Protocol" hit the headlines all over the world. The arrival of WAP coincided with a period of great interest in the wireless world, both in consumer and industry markets. WAP is a communications protocol and application environment for the deployment of information resources, advanced telephony services, and Internet access from mobile devices. By the end of 2000 many companies have came out with some hand held devices use to access the Internet.

Devices like Palm handheld computers, Pocket PC and some wireless mobile phones to access the Internet. The palm handheld computers and pocket PC access the Internet by connecting those devices to a computer using a cable then download those files from the Internet to the devices through the computer and the connecting cable to the devices.

While wireless mobile phone are able to access the Internet sent and receive emails.

Some developers are able to develop some applications that allow these wireless mobiles phone to access some limited text files, small image icon, music files from the Internet.

With this type of static WML/XHTML applications, WML/XHTML has very limited use in the WAP world.

## SUMMARY OF THE INVENTION

The present invention overcome existing WML applications limitations by providing ways to develop WML applications that provides very rich and up-to-date information. The value of wireless services is ON THE ROAD access. WAP users are looking for specific information, rather than surfing, so it's very important that the information is as up-to-date as possible. To achieve this we need to take the same information from a data store and display it via our wireless devices. To achieve this we need to create a data-centric application, with our WAP applications created along our web pages, data base application from the same data store.

Companies and individual use computer systems to store their Access Database files, SQL Server Database files, Oracle Servers Database files and other types of Database files and most of these computer systems are connected to the Internet. By make those personal, business or corporate data files and database files accessible to the internet in a secure environment and by developing application that will make it possible for a wireless mobile phone and other wireless mobile devices to access those data files. This

process makes it possible to transfer those Database files between personal, business or corporate computer Database files, wireless mobile phone and other wireless mobile devices in wireless environment with the help of the Internet without any cable connection.

Data transfer or transfer of data using wireless mobile phone and any other wireless mobile device is a great new technology. It is useful to the general public, business people, workers, politician, students etc. With this people will be able to access and update any database files in their personal, business and corporate computers using wireless mobile phone and any other wireless mobile devices from anywhere, anytime, anyplace.

The more complex component you can create, the more powerful application for data transfer using wireless mobile phone and any other wireless mobile devices you will create e.g. some of the applications I was able to develop are listed below.

You can perform any of those functions below using your wireless mobile phone and any wireless mobile devices from anywhere, anyplace, anytime.

#### **PERSONAL**

Access, search, post, update and delete any of your directory data files in your personal computer

Access, search, post, update and delete any of your event calendar data files in your personal computer

Access, search, post, update and delete any of your personal data files in your personal computer

Access, search, post, update and delete any of your personal account data files in your personal computer

#### **BUSINESS**

Access, search, post, update and delete any of your data files in your business or corporate computer

Access, search, post, update and delete any of your employee data file in your business or corporate computer

Access, search, post, update and delete any of your customer data file in your business or corporate computer

Access, search, post, update and delete any of your business data files in your business or corporate computer

#### **BANKS**

Your customers will be able to access their account using their wireless mobile phone and any other wireless mobile devices from anywhere, anytime.

#### **BROKERS**

Your customers will be able to have access to a real life quote from the company data files from anywhere anytime without affecting the data securities and this will give your customers more freedom and controls over their portfolios.

**E-COMMERCE SOLUTION FOR WIRELESS MOBILE PHONE AND ANY OTHER WIRELESS MOBILE DEVICES** is the most important application I was able to develop.

This system consist of WAP Shopping Site with catalog System that allows for the displaying, browsing, and searching of products, WAP shopping cart that allows visitors to add, view, and delete items ordered and allows visitors to check out. When visitors check out they are presented with a secure page to supply their personal information. [Wireless Mobile Phone and other Wireless Devices Shopping Cart] with built in 24 Hour a Day, 7 Days a Week Support System providing your customers with feedbacks and communications. This system is 100% compatible to computers data driving catalog and shopping cart system, using database like Access Database, SQL Server etc. Very easy to use and manage.

The use for this new technology is unlimited.

With this new technology you can use your wireless mobile phone and any other wireless mobile devices to do almost anything you can do using your computer.

#### BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a block diagram illustrating data transfer from a database store to a wireless device according to present invention. Here a request is made from wireless device for some information from a database store and the results are sent back to the wireless device.

FIG 2 is a block diagram illustrating data transfer from a database store to a wireless device and to a computer according to present invention

FIG 3 is a block diagram illustrating data transfer from a database store that is connected to Web pages, to a wireless device according to present invention

FIG 4 is a block diagram illustrating data transfer from a database store that is connected to Web pages, to a wireless device and to computer according to present invention

FIG 5 is a block diagram illustrating data transfer from a database store that is connected to Web pages, to a wireless device according to present invention

FIG 6 is a block diagram illustrating data transfer from a database store that is connected to Web pages, to a wireless device and to computer according to present invention

FIG 7 is a block diagram illustrating data transfer from a database store that is connected to Web pages, to a wireless device according to present invention

FIG 8 is a block diagram illustrating data transfer from a database store that is connected to Web pages, to a wireless device and to computer according to present invention.

#### DETAILED DESCRIPTION OF THE INVENTION

The present invention is created in deferent platforms using deferent application development package, examples are ASP by Microsoft on Microsoft platform;

JSP by Sun Micro System on Sun, Unix and Linux Platforms; ColdFusion by Allaire Corporation on Microsoft, Sun, Unix and Linux platforms. Since the creative concept is the same I will be using Active Server Page by Microsoft on my description. ASP Active Server Pages allow us to combine standard MIME type HTML elements like tables, text, and titles with scripting language elements like database fields, date/time information, and personal customization to produce a Web page that is dynamically generated every time the page is requested from a browser. The browser requests the Active Server Page, which is then processed by the Internet Information Server IIS. IIS then runs your VBScript, turning it into standard HTML tags and text. The resulting pages contains none of your code and is viewable by virtually any browser like Internet Explorer, Netscape Navigator, AOL's browser. And if you tell your Internet Information Server, IIS to use the MIME type for WML (text/vnd.wap.wml) and if you create add on component for WAP, will be able to view and access by wireless mobile phone and any wireless mobile devices.

HTML pages can be turned into Active Server Pages simply by changing their file extensions to .asp. If you then point your browser at one of the pages you should notice nothing different at all. Without adding any extra ASP code there will be almost no effect regarding how the page looks or functions.

The principle is exactly the same with WML. However in addition to changing the extension of WML files to .asp there is one more thing to do. By default, IIS will forward the contents of an ASP file to the browser using the MIME type for HTML, which will be rejected by a WAP device. So, we just need to tell the server to use the MIME type for WML.

Sending dynamic web content to your browser involves you requesting the page, IIS retrieving and interpreting the page, and the resulting HTML or WML being sent to your browser. The diagrams show this process.

First you type in a request to visit the site like <http://whatever.com/whatever.asp> or click on a link that sends you to that page. Note that the name of the page ends in .asp, which is referred to as a file extension. The request for the page, as shown in step2, routes its way to the Internet Information Server IIS.

In step 3, IIS retrieves the requested files and note that the request has files extension of .asp which tells IIS that this is a dynamic page containing script that it must interpret. IIS compile the ASP code, which can require IIS to launch other components like database SQL Server, Access database, Oracle database, browser capability, etc and your own created components.

Launching these components is where you really see the power of ASP. Components allow you to read from database any contents, customers, files, workers files, etc. Also to check what type of browser the request has before displaying the files.

All of this script and component code is converted into standard HTML or WML that is sent back out through the Internet to your browser in step5. In the final step, your browser receives either HTML or WML depending on what type of device you tell IIS that you are using.